

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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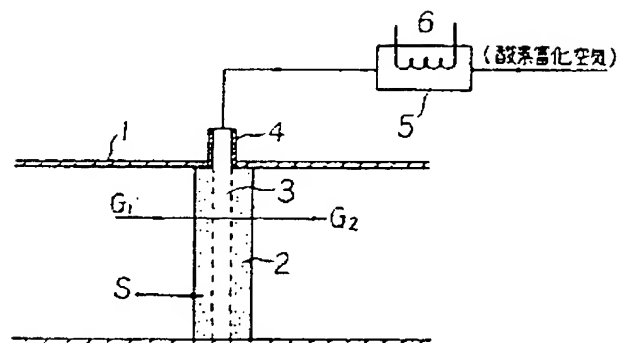
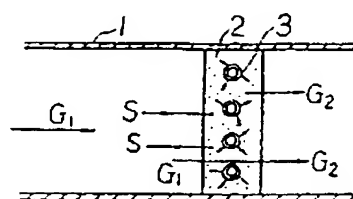
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INVENTOR : HOKAO NOBUAKI;

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TITLE : DEDUSTING APPARATUS FOR  
EXHAUST GAS



ABSTRACT : PURPOSE: To filter off unburnt solid materials and further to combust them perfectly together with CO by arranging a porous combustion medium in a passage of an exhaust gas and by heating that medium with the heat of the exhaust gas.

CONSTITUTION: Soot S contained in an exhaust gas  $G_1$  flowing through an engine exhaust gas duct 1 is captured and remains in pores while passing through a combustion medium 2, which is made of porous ceramics etc. and supports a catalyst, and a dedusted exhaust gas  $G_2$  is ejected outward. More than one aeration pipes 4 are arranged in the combustion medium 2; therefore, the soot captured in the combustion medium 2 is perfectly combusted and extinguished by an oxygen enriched air, which is supplied through aeration holes 3 of the aeration pipes 4 after heated by a gas heating instrument 6 equipped with a heater 6. At this time, the combustion of the soot S is promoted by an action of the catalyst supported by the combustion medium 2. Therefore, the soot, dust, etc. in the exhaust gas  $G_1$  are combusted and CO is also perfectly combusted and turned into  $CO_2$ .

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